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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEB 1 2 2004

Applicants:

Beckmann and Cerretti

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Serial No.:

09/904,954

FEB 0 6 2004

Group Art Unit No.:

1646

Filed:

July 12, 2001

OFFICE OF PETITIONS

Examiner: Prema Maria Mertz

For:

DNA ENCODING A HEK-LIGAND POLYPEPTIDE (as

amended)

Docket No.:

2814-G

PETITION TO WITHDRAW HOLDING OF ABANDONMENT

Mail Stop Abandonment Attention: Prema Mertz Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Notice of Abandonment dated January 14, 2004, Applicants respectfully states that the Response in question was mailed and timely filed on May 7, 2003. Enclosed are copies of the date stamped postcard, the Express Mail label, the Fee Authorization/Amendment Transmittal Letter and the Amendment thereto. Applicant(s) hereby petition to withdraw holding of abandonment.

Please charge Deposit Account No. 09-0089 in the amount of \$130.00, which would cover the Petition. The Commissioner is hereby authorized to charge any additional fees, which may be required to the Deposit Account No. 09-0089. An original and two copies of this paper are enclosed.

Applicant(s) request(s) favorable action on this petition.

Please send all future correspondence to:

US Patent Operations/ RNM Dept. 4300, M/S 27-4-A AMGEN INC. One Amgen Center Drive Thousand Oaks, California 91320-1799

02/06/2004 AUDNDAF1 00000034 090089 09904954

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Randolph N. Mohr

Respectfully submitted,

Attorney/Agent for Applicant(s)

Registration No.: 45,590 Phone: (805) 447-8949

Date: January 30, 2004

EXPRESS MAIL CERTIFICATE

"Express Mail" mail labeling

EV351338904US

Date of Deposit: January 30, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 233J3-1450.

Sherry St. Andrew Printed Name



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERC

FEB 0 6 2004

United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

FIRST NAMED EVEN OR ETTO NO ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE M. Patricia Beckmann 2814-G 09/904,954 07/12/2001 EXAMINER 22932 7590 01/14/2004 **IMMUNEX CORPORATION** MERTZ, PREMA MARIA LAW DEPARTMENT

51 UNIVERSITY STREET SEATTLE, WA 98101

2 0 2004

ART UNIT PAPER NUMBER 1646 DATE MAILED: 01/14/2004



Please find below and/or attached an Office communication concerning this application or proceed

PTO-90C (Rev. 10/03)

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PRIMARY EXAMINER

APPLICATION NUMBER		FILING DATE	TE FIRST NAMED APPLICANT		ATTORNEY DOG TONO.		
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This application is abandoned in view of: Applicant's failure to timely file a proper response to the Office letter mailed on ____ ☐ A response (with a Certificate of Mailing or Transmission of_) was received on _, which is after the expiration of the period for response (including a total extension of time of____month(s)) which expired on ___ _____, but it does not constitute a proper response to the final A proposed response was received on ____ rejection. (A proper response to a final rejection consists only of: a timely filed amendment which places the application in condition for allowance; a Notice of Appeal; or the filing of a continuing application under 37 CFR 1.62 (FWC). No response has been received. Applicant's failure to timely pay the required issue fee within the statutory period of three months from the mailing date of the Notice of Allowance. The issue fee (with a Certificate of Mailing or Transmission of ______) was received on _____ ☐ The submitted issue fee of \$___ is insufficient. The issue fee required by 37 CFR 1.18 is \$____. The issue fee has not been received. Applicant's failure to timely file new formal drawings as required in the Notice of Allowability. Proposed new formal drawings (with a Certificate of Mailing or Transmission of _____ received on _ The proposed new formal drawings filed _ No proposed new formal drawings have been received. The express abandonment under 37 CFR 1.62(g) in favor of the FWC application filed on ____ The letter of express abandonment which is signed by the attorney or agent of record, the assignee of the entire interest, or all of the applicants. The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34(a) upon the filing of a continuing application. The decision by the Board of Patent Appeals and Interferences rendered on_ ___ and because the period for seeking court review of the decision has expired and there are no allowed claims. The reason(s) below:



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OFFICE OF PETITIONS



THE PATENT OFFICE IS HEREBY REQUESTED TO ACKNOWLEDGE. **7 RECEIPT OF THE FOLLOWING DOCUMENTS BY DATE STAMPING AND** RETURNING THIS POST CARD

Applicant: Beckmann, et al.

Filed: 07/12/2001 Serial No.: 09/904,954

For: DNA ENCODING A HEK-LIGAND POLYPEPTIDE (as amended herein)

Attorney: Randolph N. Mohr

Enclosures:

1 pg - Amendment Transmittal and 1 copy

7 pgs - Amendment and Response

2814-G RNM:sd RECEIVED MAY 3809920 Express Mail

May 7, 2003

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Attorney's Docket No: , FEE AUTHORIZATION / AMENDMENT TRANSMITTAL LETTER Filing Date Examiner Group Art Un Serial No. 09/904.954 07/12/2001 Mertz, Prema Maria In Re Application of: M. Patricia Beckmann, et al. For DNA ENCODING A HEK-LIGAND POLYPEPTIDE (as amended herein) TO THE ASSISTANT COMMISSIONER FOR PATENTS: OFFICE OF PETITIONS Applicant(s) request(s) the following extension of time under 37 CFB One month of original due date (\$110.00) Two months of original due date (\$410.00) ☐ Three months of original due date (\$930.00) Four months of original due date (\$1,450.00) Five months of original due date (\$1,970.00) A response in connection with the matter for which this extension is re is filed herewith. has been filed. The response is the filing of a continuing prosecution application, the prior application having an express abandonment conditioned on the granting of a filing date to the continuing application. The accompanying papers include amended claims for which no additional fee is required. The accompanying papers include amended claims the fee for which has been calculated as follows: **CLAIMS AS AMENDED** (1)(2)(3)(4)(5) (6)(7) Claims remaining Highest number No. of Extra Additonal After amendment Previously paid for claims present Rate Fee **Total Claims** Minus \$18 \$ 0.00 0 = X Indep. Claims Minus 0 = Х \$84 0.00 First Appearance of a multiple dependent claim \$280 0.00 Total Additional Fee for this Amendment \$0.00 If the entry in column 2 is less than the entry in column 4, write "0" in column 5. If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space. If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest No. Previously Paid For" (Total or Indep.) is the highest number found in the appropriate box in Col 1, of a prior amendment or the number of claims originally filed. ☐ The following other fees are incurred by the accompanying papers. ☐ Other: Please charge Deposit Account No. 09-0089 in the name of Immunex Corporation in the amount of \$_ A duplicate copy of this petition is attached. If an additional extension of time is required, please consider this a request therefore. The Commissioner is hereby authorized to charge any additional fees which may be required by the accompanying papers, or credit any overpayment to Deposit Account No. 09-0089. Please Send Future Correspondence To: Immunex Corporation Randolph N. Mohr Law Department Attorney/Agent for Applicant(s) 51 University Street Registration No.: 45,590 Seattle, Washington 98101

EXPRESS MAIL CERTIFICATE

Date:

(206) 587-0430

Phone: (805) 447-8949

May 7, 2003

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I hereby certify that this paper or fee is indicated above and is addressed to the	is being deposited with the United States Postal he Assistant Commissioner for Patents, Washing	rton D.C 20231/	ce to Addressee each ce under 37 C.F.R. 1.10 on the date
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Group Art Unit No.:

Examiner: Prema Maria Men

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Applicants:

Beckmann and Cerretti

Serial No.:

09/904,954

Filed:

July 12, 2001

For:

DNA ENCODING A HEK-LIGAND POLYPEPTIDE (as

amended herein)

Docket No.:

2814-G

Honorable Commissioner for Patents Washington DC 20231

COPY

AMENDMENT

Sir:

In response to the Notice of Non-Compliant Amendment (Voluntary Revised Practice) mailed April 29, 2003 to which a response is due by May 29, 2003, and in response to the Office action of November 18, 2002, please amend the above identified application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 5 of this paper.

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Lynne Buchsbaum

Printed Name

In the Specification:

Please replace the title with the following rewritten title:

-- DNA ENCODING A HEK-LIGAND POLYPEPTIDE --





This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1 (currently amended): An isolated <u>DNA nucleic acid</u> encoding a hek-L protein capable of binding hek, wherein said <u>DNA nucleic acid</u> comprises a nucleotide sequence that is at least 80% identical to a sequence selected from the group consisting of nucleotides 83-796, 83-745, 140-796, and 140-745 of SEQ ID NO:1.

Claim 2 (cancelled).

Claim 3 (currently amended): An isolated <u>DNA nucleic acid</u> encoding a hek-L protein capable of binding hek, wherein said <u>DNA nucleic acid</u> comprises a nucleotide sequence that is at least 80% identical to a sequence selected from the group consisting of nucleotides 28-630, 28-573, 94-630, and 94-573 of SEQ ID NO:3.

Claim 4 (cancelled).

Claim 5 (currently amended): An isolated <u>DNA nucleic acid</u> encoding a human hek-L protein capable of binding hek, wherein said hek-L comprises an amino acid sequence that is at least 80% identical to a sequence selected from the group consisting of amino acids 1-202 and 1-219 of SEQ ID NO:2 and amino acids 1-160 and 1-179 of SEQ ID NO:4.

Claim 6 (cancelled).

Claim 7 (currently amended): An isolated <u>DNA_nucleic acid</u> encoding a fusion protein comprising a hek-L polypeptide that binds hek, and an Fc polypeptide, wherein said hek-L comprises an amino acid sequence that is at least 80% identical to a sequence selected from the group consisting of amino acids 1-202 of SEQ ID NO:2 and amino acids 1-160 of SEQ ID NO:4.

Claim 8 (currently amended): An expression vector comprising a DNA nucleic acid according to claim 1.

Claim 9 (currently amended): An expression vector comprising a DNA nucleic acid according to claim 3.

Application No. 09/904,954

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Claim 10 (currently amended): An expression vector comprising a DNA nucleic acid according to claim 5.

Claim 11 (currently amended): An expression vector comprising a DNA nucleic acid according to claim 7.

Claim 12 (original): A process for preparing a hek-L polypeptide, comprising culturing a host cell transformed with a vector according to claim 8 under conditions promoting expression of hek-L, and recovering the hek-L polypeptide from the culture.

Claim 13 (original): A process for preparing a hek-L polypeptide, comprising culturing a host cell transformed with a vector according to claim 9 under conditions promoting expression of hek-L, and recovering the hek-L polypeptide from the culture.

Claim 14 (original): A process for preparing a hek-L polypeptide, comprising culturing a host cell transformed with a vector according to claim 10 under conditions promoting expression of hek-L, and recovering the hek-L polypeptide from the culture.

Claim 15 (previously amended): A process for preparing a hek-L polypeptide, comprising culturing a host cell transformed with a vector according to claim 11 under conditions promoting expression of hek-L, and recovering the hek-L polypeptide from the culture.

Claims 16-27 (cancelled).

Claims 28-39 (withdrawn).



REMARKS/ARGUMENTS

Claims 1, 3, 5, and 7-15 remain in this application. Claims 28-39 have been withdrawn due to a restriction requirement wherein the Applicants have elected to prosecute Group I (claims 1, 3, 5, and 7-15).

Claims 1, 3, 5, and 7-11 have been amended to more particularly claim that which the inventors consider to be the invention. These amendments are supported throughout the specification and do not represent new matter.

35 U.S.C. 112, First Paragraph (written description)

Claims 1, 3, 5, 7-15 are rejected under 35 U.S.C. 112, first paragraph as allegedly containing subject matter that is not described in the specification in such a way as to reasonably convey to one skilled in the art that the inventors had possession of the claimed invention at the time of the application. In particular, it is alleged that the specification and claims do not indicate what "distinguishing attributes" are shared by the members of the subject matter of the claims, *i.e.*, a nucleic acid genus. And further, it is alleged that there is no common 'structural attributes' given to identify the members of the claimed genus. It is concluded that the disclosure fails to provide a representative number of species to describe the claimed genus and therefore the Applicants were not in possession of the claimed invention.

Applicants' representative traverses this rejection for the following reasons.

In the recent Enzo decision (*Enzo Biochem, Inc. v. Gen-Probe Inc.*, No. 01-1230 (Fed Circ., 2002)), the Federal Circuit reviewed with approval the Office's guidelines on written description. In particular, the Court considered claims to antibodies directed to a particular antigen, where no antibodies had been described. In this type of claim there is no structure given in which there is a common structural or distinguishing attribute, as is now required by the present Examiner in order for there to be sufficient written description of the presently claimed invention. However, the Court noted that this type of claim can be sufficient for the purposes of written description when the function of a claimed molecule is sufficient to describe the molecule when the antigen is known. This is particularly true in fields that are developed and mature, such as in antibody/antigen interactions and can be extended to additionally well characterized fields such as ligand/receptor binding which is, like antibody/antigen binding, another example of a protein binding a second protein.

The presently claimed invention encompasses a description of a molecule partly by it's function, i.e., capable of binding its receptor, hek. In addition, the claims also provide additional limitations on the scope of the molecules that can be included in the claimed genus, i.e., at east 80% identity to a known sequence. Thus, the common attributes of the claimed genus are 80% identity to a prescribed sequence, e.g., SEQ ID Nos 1 or 3, and encoding a protein that has the ability to bind hek. This type of claim language, in view of the teachings of the specification, is completely consistent with *Enzo* and therefore, the claimed invention meets the written description requirement.



It is believed that these two attributes are more than sufficient to meet the written description requirement. It is also noted that claims similar to these are routinely allowed to issue by the Office. However, if the Office finds that these are still insufficient, Applicants' representative request clarification of examples of what would suffice to meet the appropriate standard. Accordingly, in view of the above arguments, applicant respectfully submits that the foregoing rejection is in error and should be withdrawn for the reasons cited.

35 U.S.C. 112, First Paragraph (enablement)

Claims 1, 3, 5, 7-15 are rejected under 35 U.S.C. 112, first paragraph as allegedly not enabling for isolated DNA encoding a hek-L protein that is at least 80% identical to a sequence as set forth in SEQ ID Nos 1 or 3. Further, it is stated that there are no actual or prophetic examples on the expected 'parameters of any of the possible nucleic acid molecules encoding muteins of hek-L' polypeptides.

Applicants' representative traverses this rejection for the following reasons.

The test for enablement is whether one reasonably skilled in the art could make or use the invention, without undue experimentation, based on the teachings of the specification coupled with information known in the art at the time the patent application was filed. *U.S. v. Telectronics Inc.*, 857 F.2d 778, 8 U.S.P.Q.2d 1217 (Fed. Cir. 1988). Enablement is not precluded even if some experimentation is necessary. *Hybritech, Inc. v. Monoclonal Antibodies, Inc.*, 802 F.2d 1367, 1384 (Fed. Cir. 1986). This is so even if the amount of experimentation is laborious. [emphasis added] *In re Wands*, 858 F.2d 731 (Fed. Cir. 1988). Further, the Courts have held that the key word is "undue', not 'experimentation." *In re Angstadt*, 190 U.S.P.Q. 214 (C.C.P.A. 1976).

In *In re Wands*, the Applicants claimed an assay using any monoclonal antibody that had a high affinity for an antigen. The Applicants used techniques well known in the art to make over 100 monoclonal antibodies. However, it was impossible to predict which of these antibodies would recognize the antigen and which would not without subsequent testing. The Federal Circuit held that even though there was additional testing that would be required to determine the full scope of the claimed invention, it would not constitute undue experimentation. This is analogous to the present situation, where the inventors have set forth a genus of molecules that would need to be tested for their ability to encode a protein capable of binding hek. The type of experimentation required to show a protein interaction, however, is routine as would be recognized by one of skill in the art and is also shown in the examples of the present specification. Therefore, it is respectfully submitted that the amount of experimentation required to enable the claimed invention is not undue.

Indeed, the specification teaches mutant sequences having additions or deletions (pp. 5-7), the regions of the hek-L which are important for ligand-receptor interaction (namely, the extracellular domain, p. 7), and assays for measuring binding of hek-L to its receptor (pp. 11-13 and Example 5 on pp. 29-31).



Thus, the amount of teaching provided is more than sufficient to provide enablement to conduct any secondary experimentation. Given the teaching of the specification and the level of skill in the art, the effort required to perform the experiments would be merely routine, and the amount of work needed for determination of the nucleic acids encoding the desired polypeptides would not be undue. Thus, these teachings, considered in light of the above described law are sufficient to enable one of skill in the art to practice the invention without undue experimentation.

The Examiner further objects to the lack of more working examples. However, as long as the specification teaches how to make and use the invention, a particular number or content of illustrative examples are not required. Enablement is met by an objective standard, and therefore one need not teach, and preferably omits, what is well known in the art. *Staehelin v. Secher*, 24 U.S.P.Q.2d 1513, (B.P.A.I. 1992) ("How such a teaching is set forth, whether by the use of illustrative examples or by broad descriptive terminology, is of no importance").

Thus, in light of the teachings of how to use the invention, it should not be held that the presently claimed invention is not enabled and withdrawal of this rejection is respectfully requested.

Obviousness-Type Double Patenting

Claims 1, 3, 5, 7-15 are rejected under the judicially created doctrine of obviousness-type double patenting. It is stated that a terminal disclaimer can be filed to overcome statutory double patenting providing the conflicting application and patent are commonly owned. The cited patent, U.S. Patent No. 5,516,658 is indeed commonly owned with the instant application. It is respectfully submitted that a terminal disclaimer will be filed when the Examiner has indicated that the rejections under section 112 are overcome, and the application is in form for allowance.

CONCLUSION

Applicants respectfully submit that the claimed invention of the present application is in proper condition for allowance, and respectfully requests issuance thereto. It is believed that no fee is due with this Amendment, however, if the Office deems that a fee is due then authorization is granted to charge Account Number 09-0089.

Please Send Future Correspondence To: Immunex Corporation/RNM 51 University Street Law Department Seattle, Washington 98101 (206) 587-0430Date: Randolph N. Mohr

Attorney/Agent for Applicant(s) Registration No.: 45,590

Phone: (805) 447-8949

Respectfully submitted.

May 7, 2003